

Positive Feedback Loop via HIF-1 α Lactylation Driven by Kynurenine

Promotes Glycolysis

Kyn	0	1	0	1
Kynl	-	-	+	+

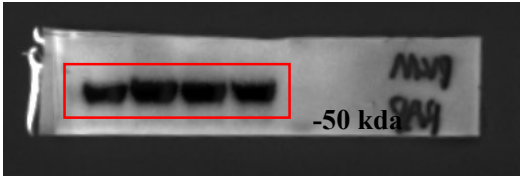


Fig1-J-PKM

Kyn	0	1	0	1
Kynl	-	-	+	+

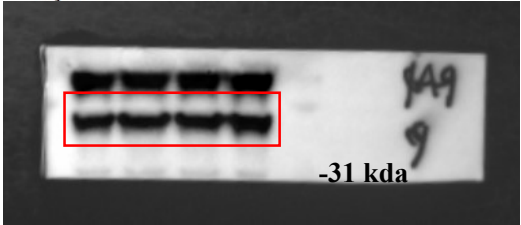


Fig1- J -LDHA

Kyn	0	1	0	1
Kynl	-	-	+	+

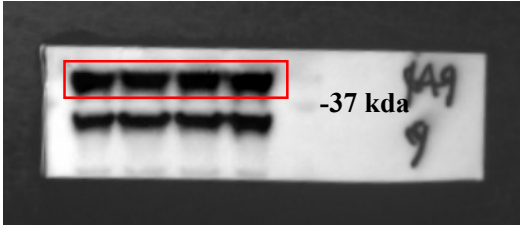


Fig1- J - β -actin

Kyn	0	1	0	1
Kynl	-	-	+	+

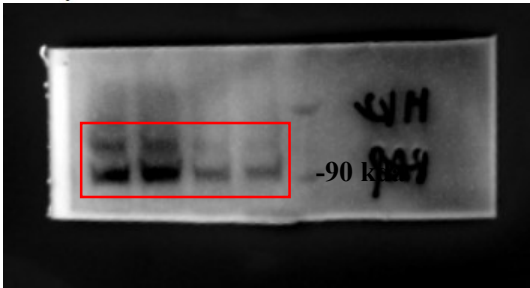


Fig1- J -HK2

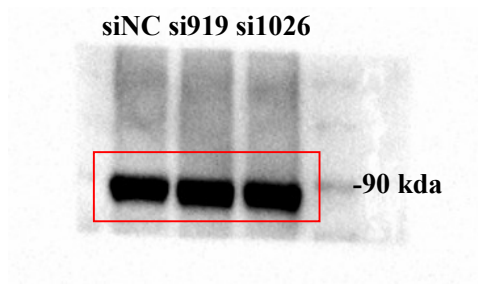


Fig2-C-HSP90

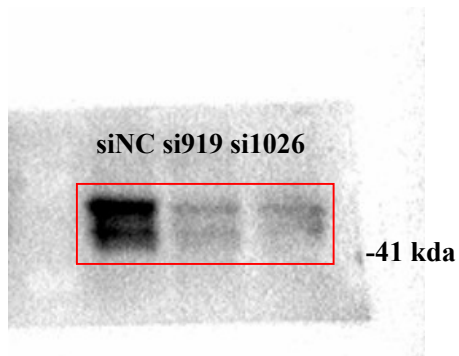
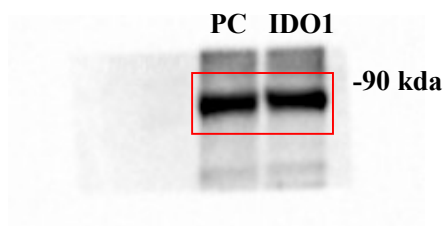
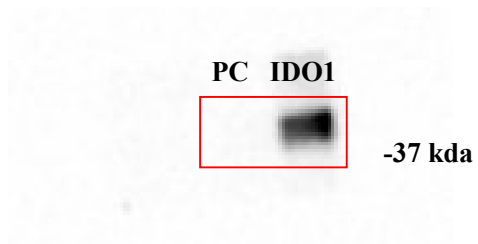


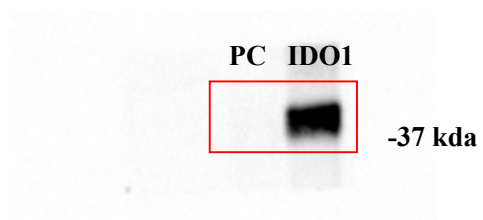
Fig2-C-IDO1



S4-C-27-HSP90



S4-C-IDO1



S4-C-FLAG

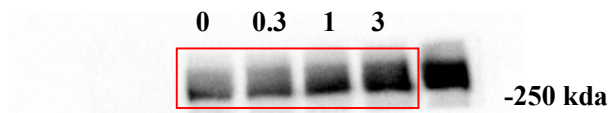


Fig3-B-p-mTOR

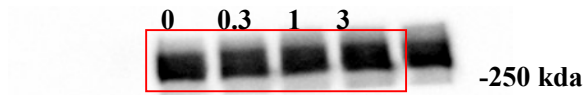


Fig3-B- t-mTOR

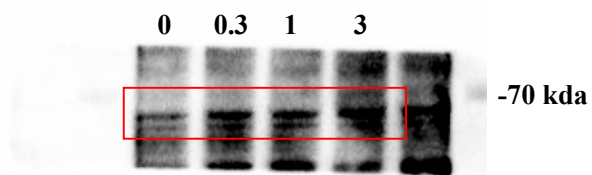


Fig3-B- p70s6 ser371

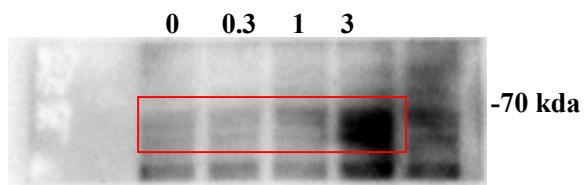


Fig3-B- p70s6 thr389

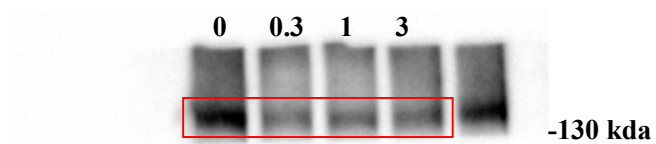


Fig3-B- ULK1

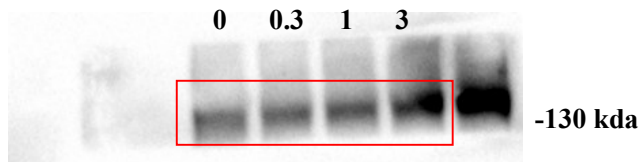


Fig3-B- p-ULK1

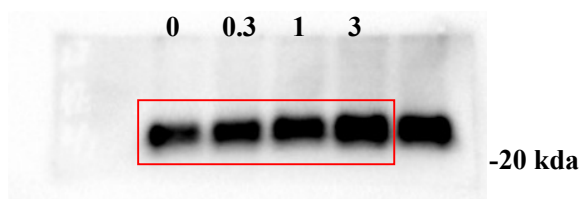


Fig3-B- p4EBP1

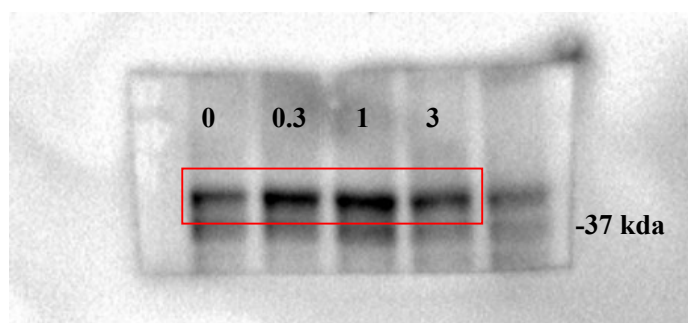


Fig3-B- β -ACTIN

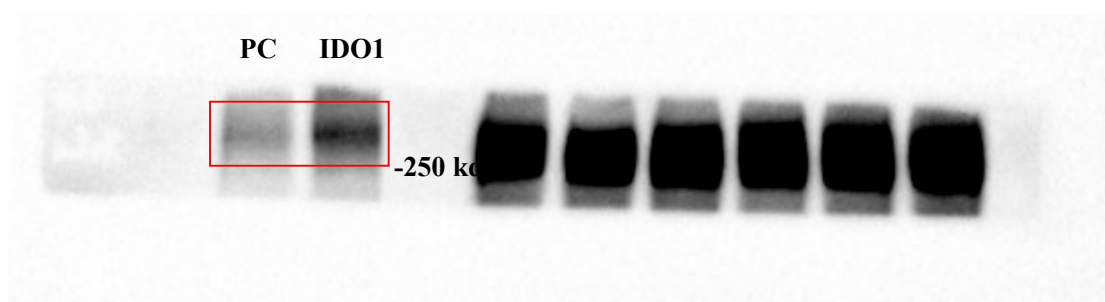


Fig3-C-p-mTOR

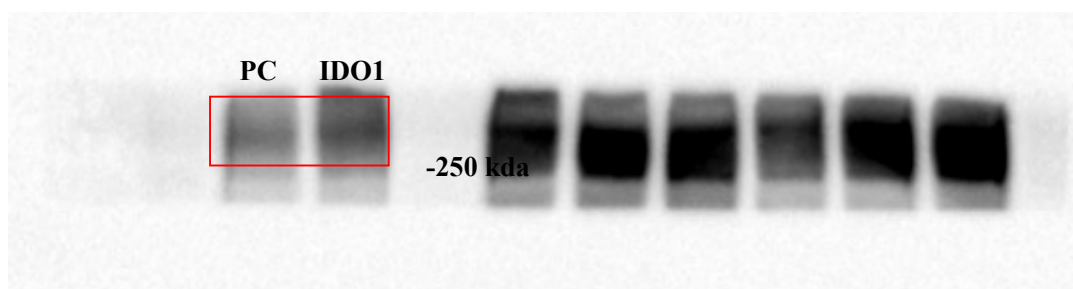


Fig3-C- mTOR

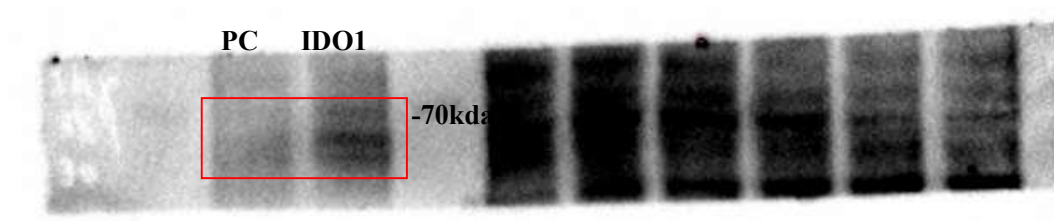


Fig3-C- p70s6 ser371

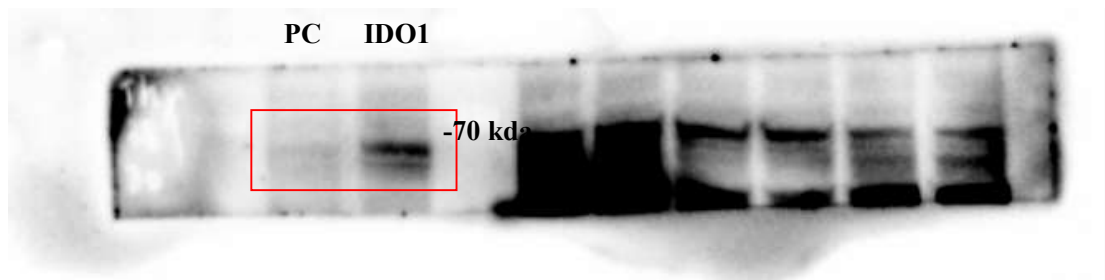


Fig3-C- p70s6 thr389

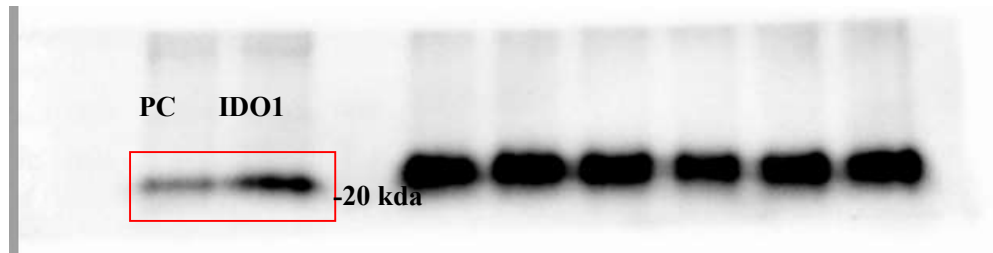


Fig3-C- p4EBP1

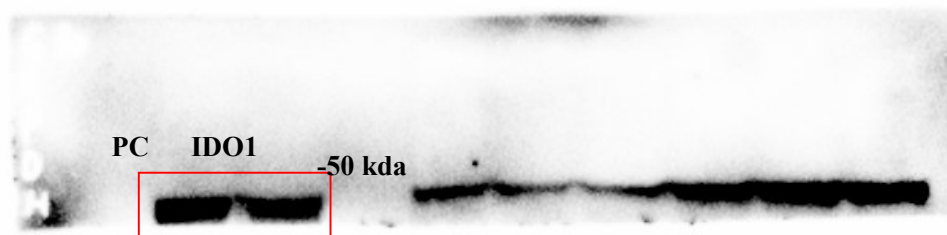


Fig3-C-β-Actin

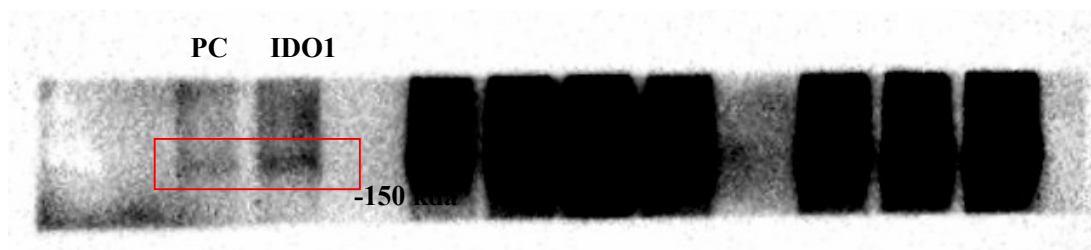


Fig3-C- p-ULK1

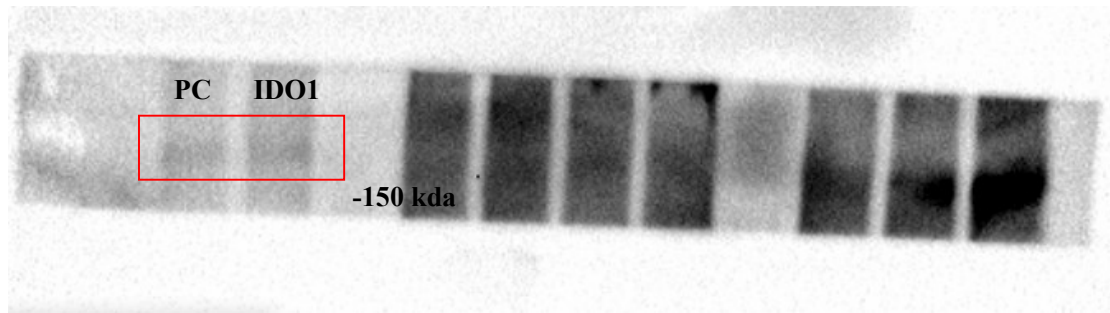


Fig3-C- ULK1

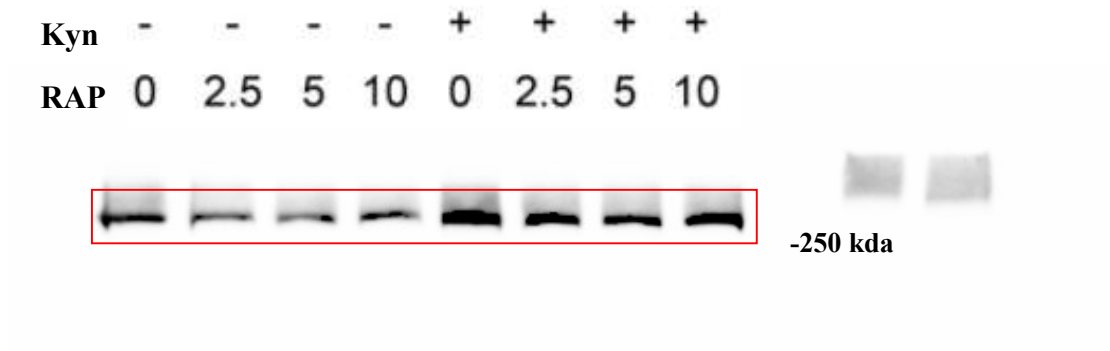


Fig3-D-p-mTOR



Fig3-D – t-mTOR

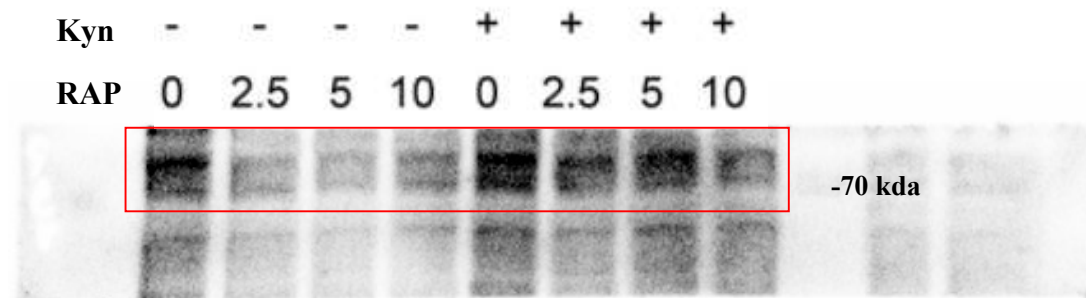


Fig3-D- p70s6 ser371

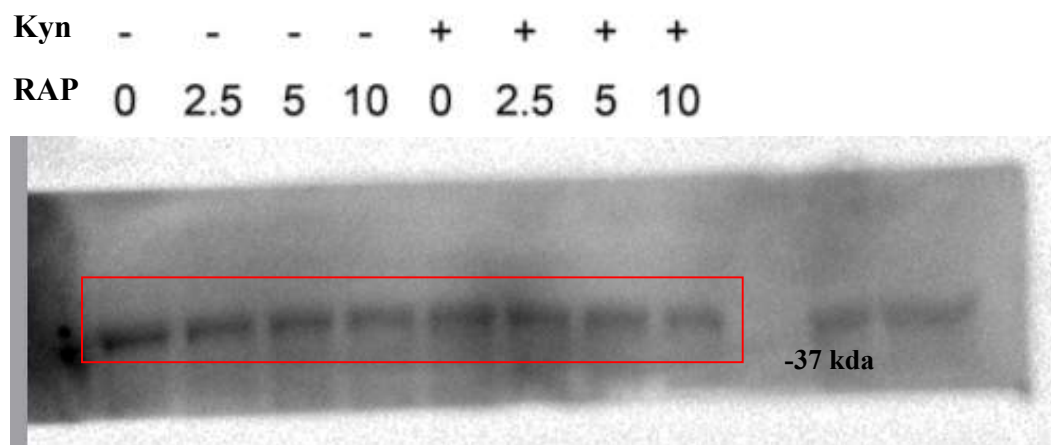


Fig3-D- ACTIN

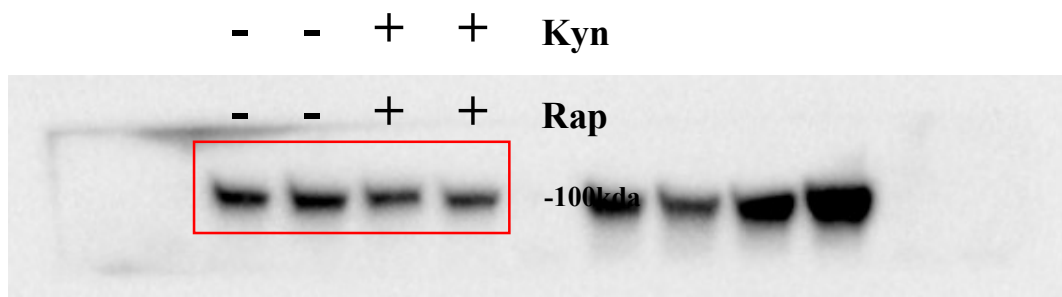


Fig3-G- HIF-1α

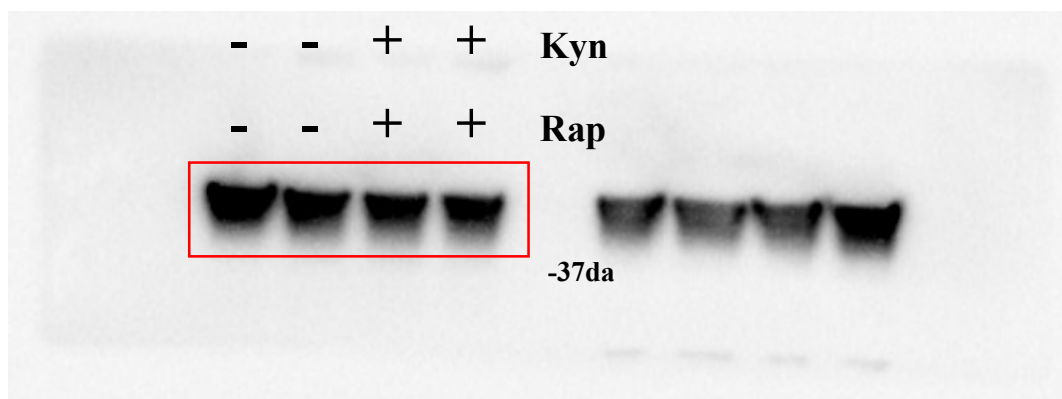


Fig3-G- Actin

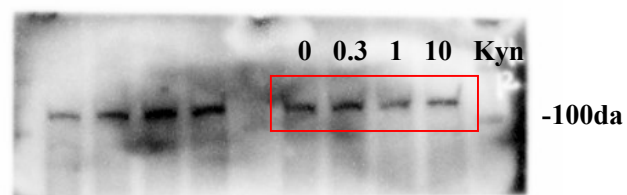


Fig4-A- AhR

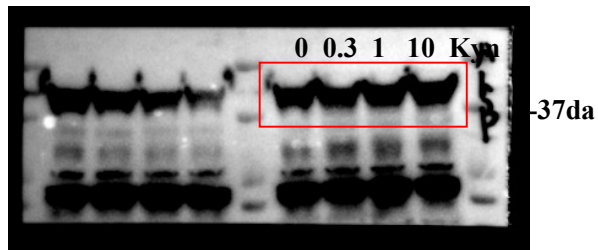


Fig4-A- ACTIN

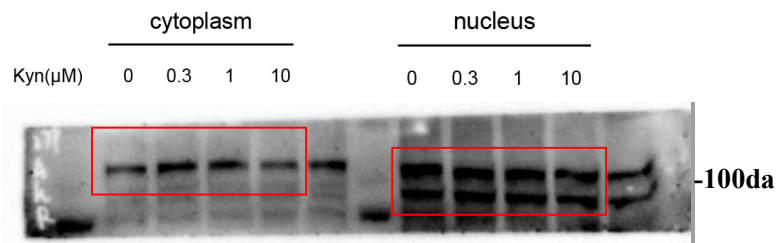


Fig4-B- AHR

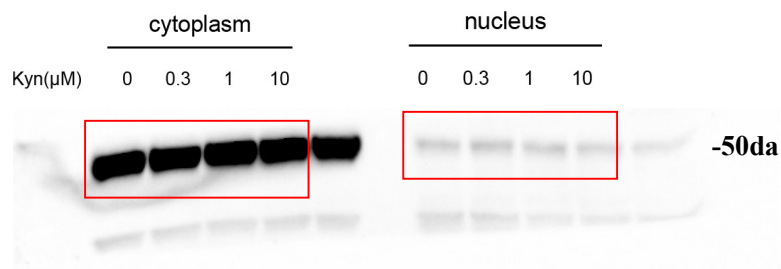


Fig4-B- α -tubulin

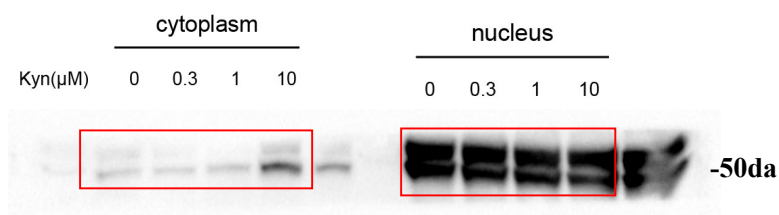


Fig4-B-laminA/C

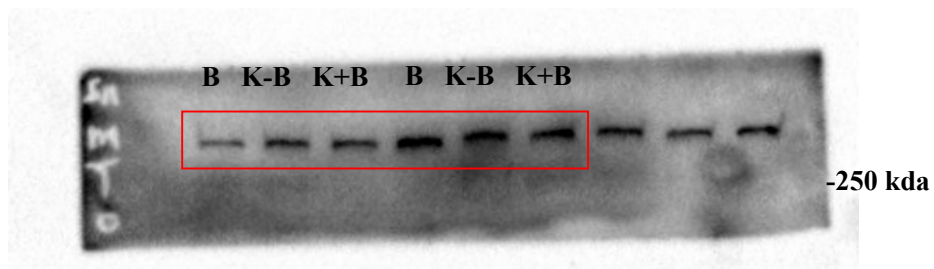


Fig4-F-input-MTOR

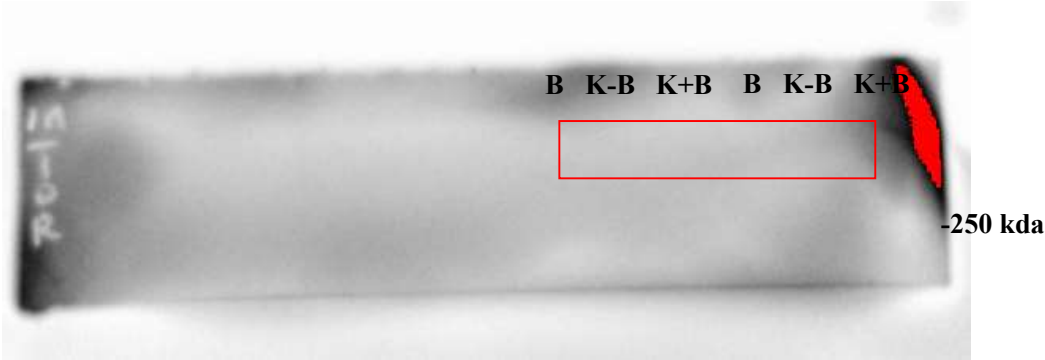


Fig4-F-ip-MTOR

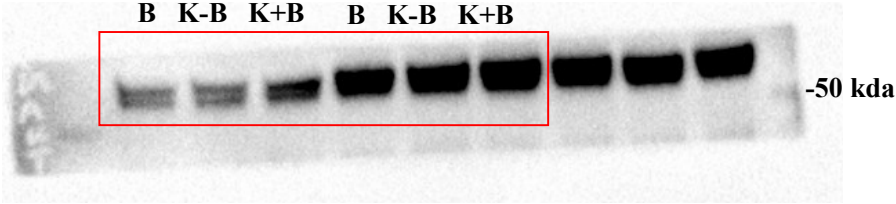


Fig4-F-input-AKT

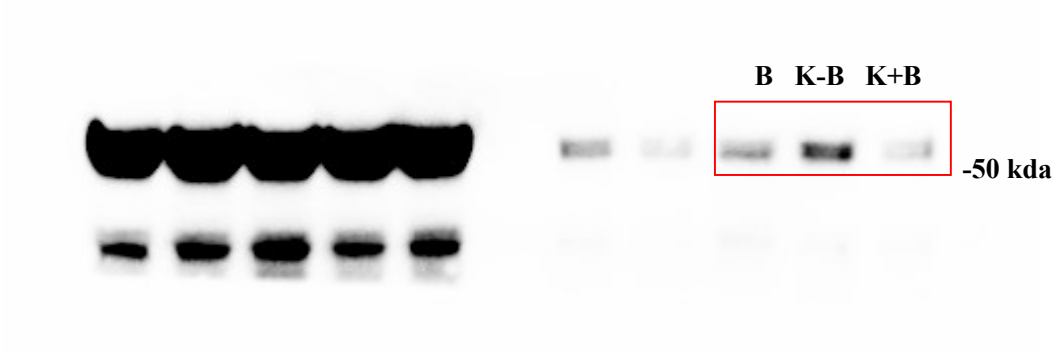


Fig4-F-27-ip-27AKT



Fig4-F-6-ip-6AKT

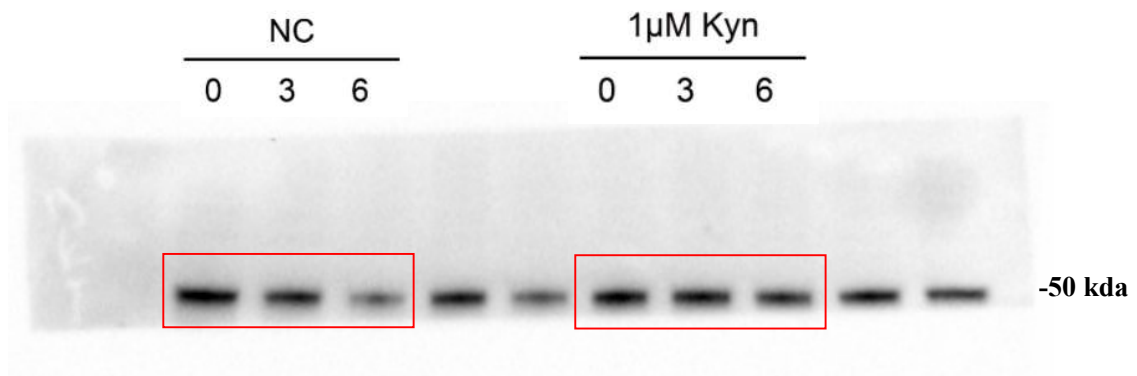


Fig4-G-AKT

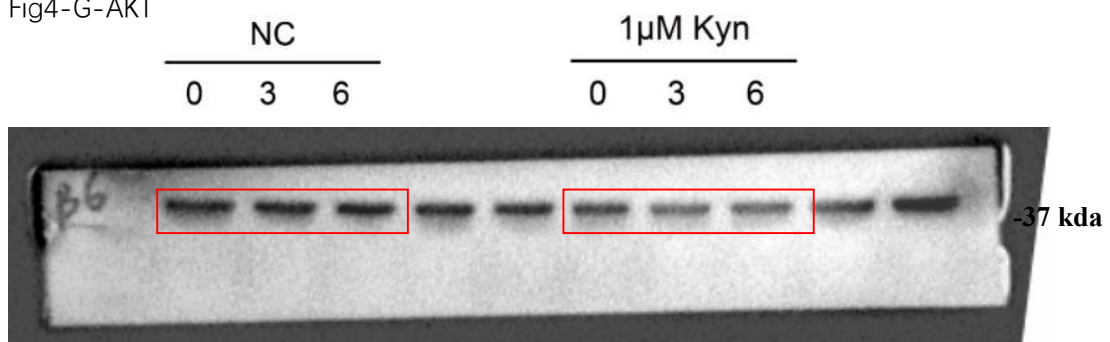


Fig4-G-Actin

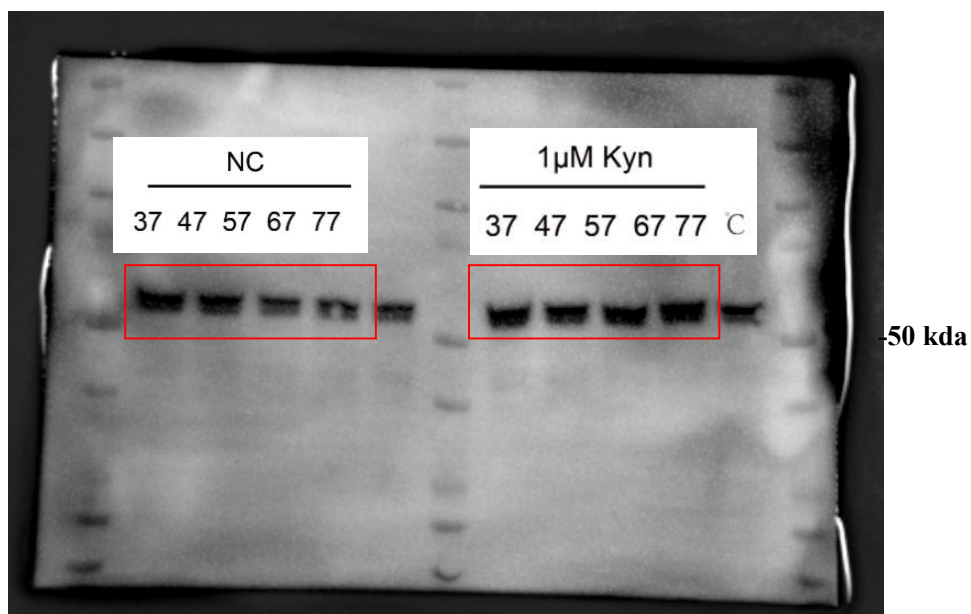


Fig4-H-AKT

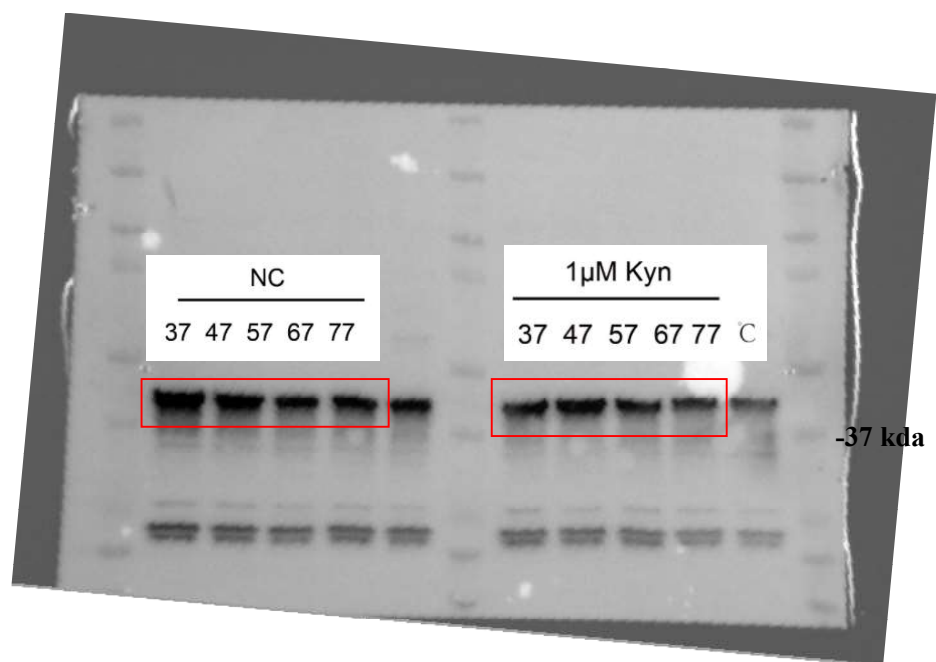


Fig4-H-Actin

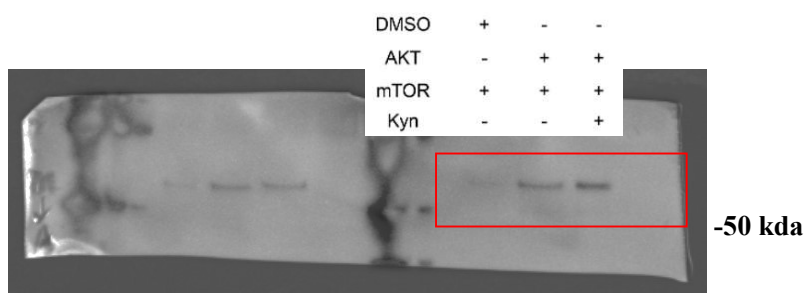


Fig4-I-p-mTOR

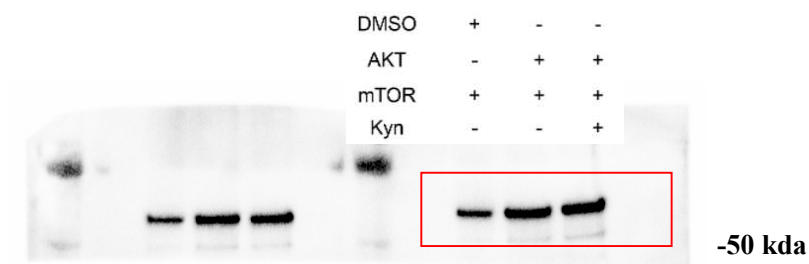


Fig4-I-t-mTOR

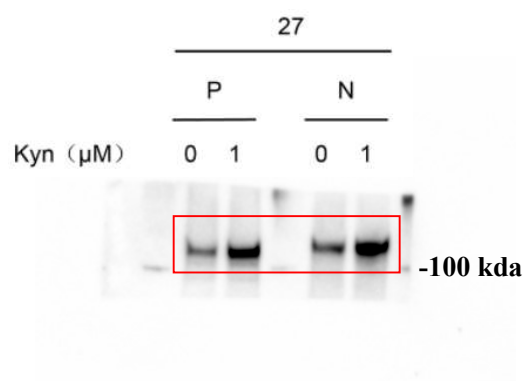


Fig5-B-27-HIF-1 α

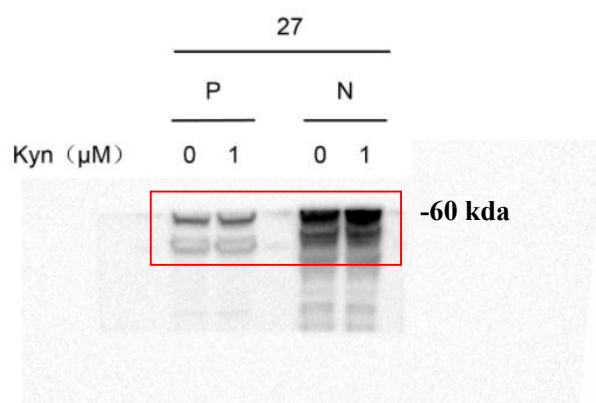


Fig5-B- α -27-tublin+LaminA/C

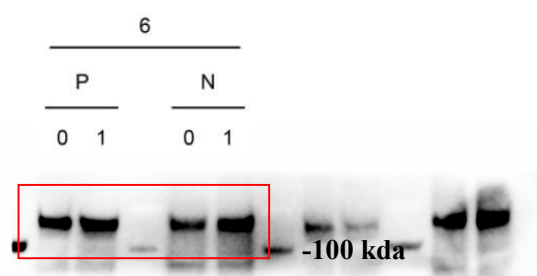


Fig5-B-6-HIF-1 α

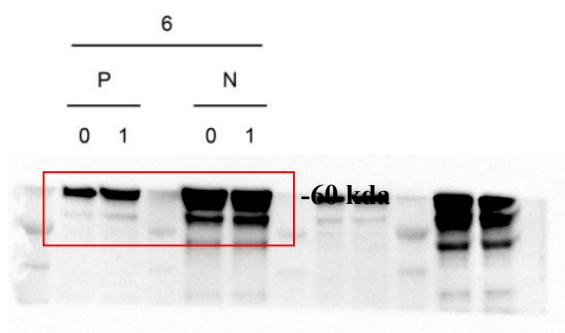


Fig5-B- α -6-tublin+LaminA/C

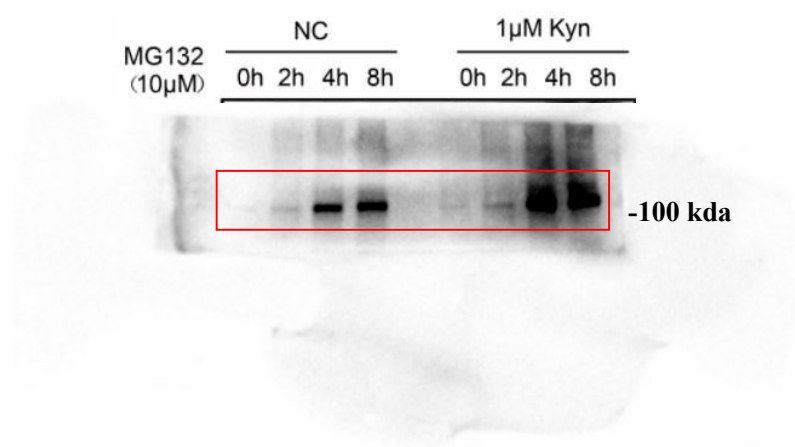


Fig5-D-HIF-1α

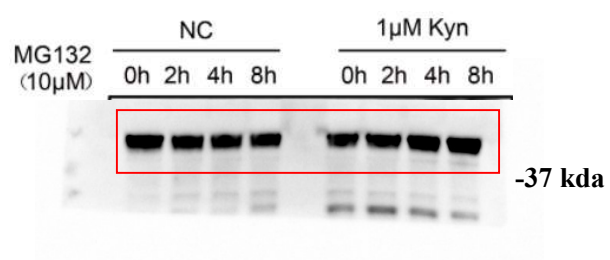


Fig5-D-Actin

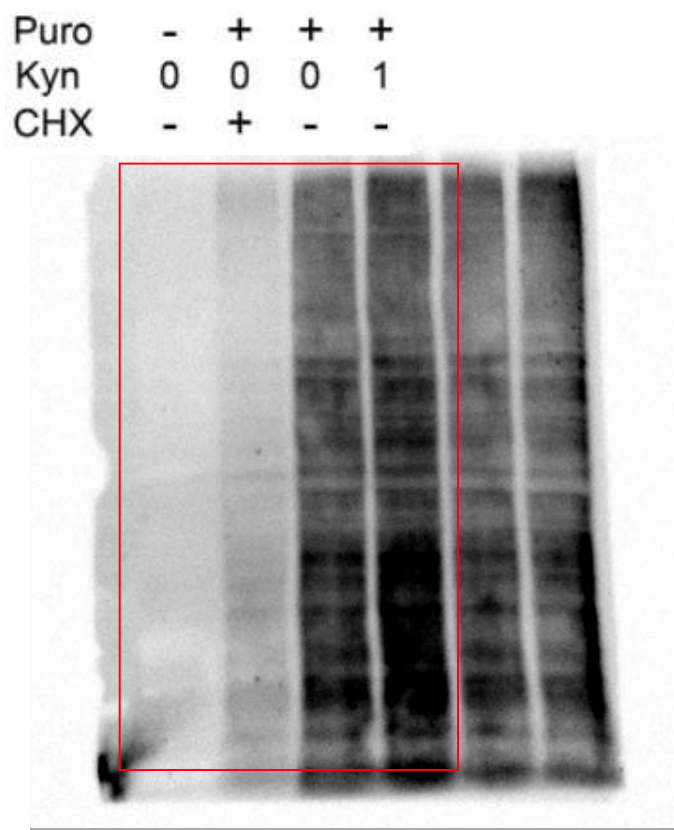


Fig5-E-puromycin

Puro	-	+	+	+
Kyn	0	0	0	1
CHX	-	+	-	-

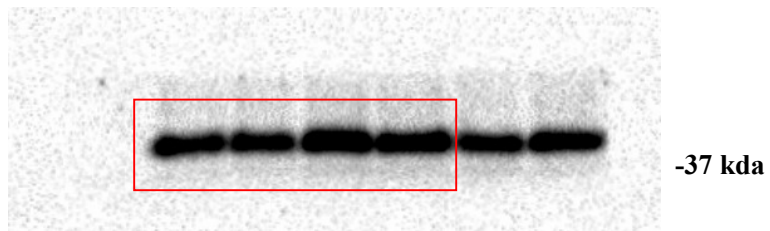


Fig5-E- β -ACT

	PC			IDO1		
Puro	-	+	+	-	+	+
CHX	-	+	-	-	+	-

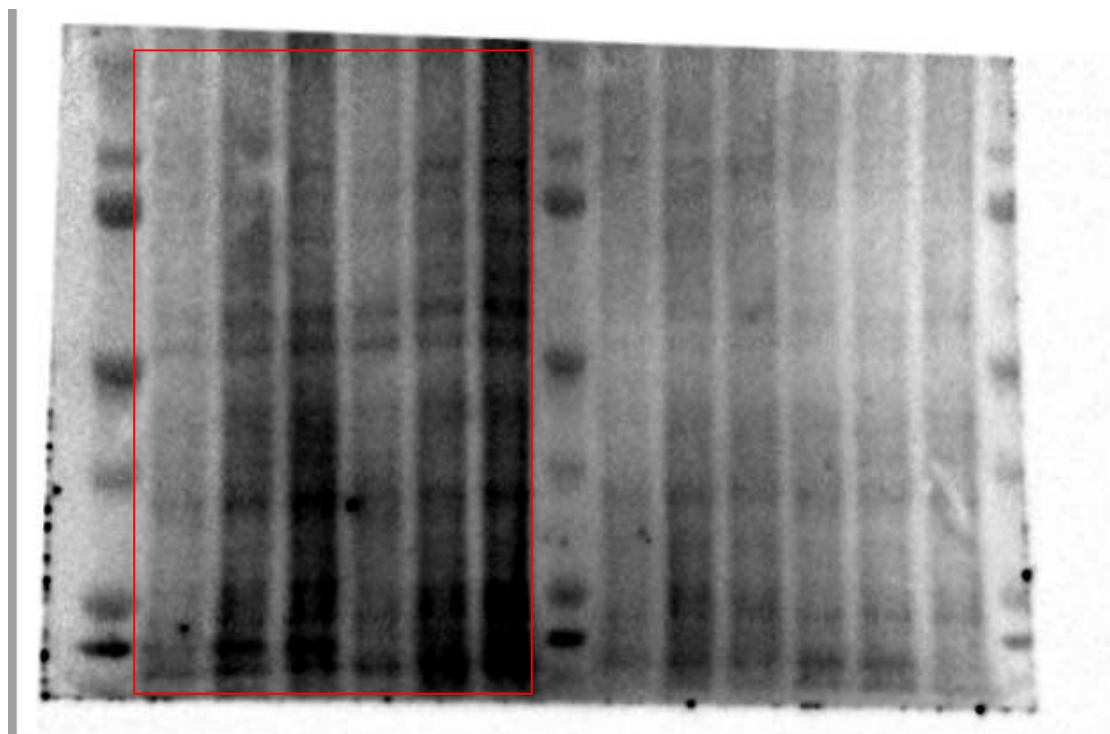


Fig5-F-puromycin

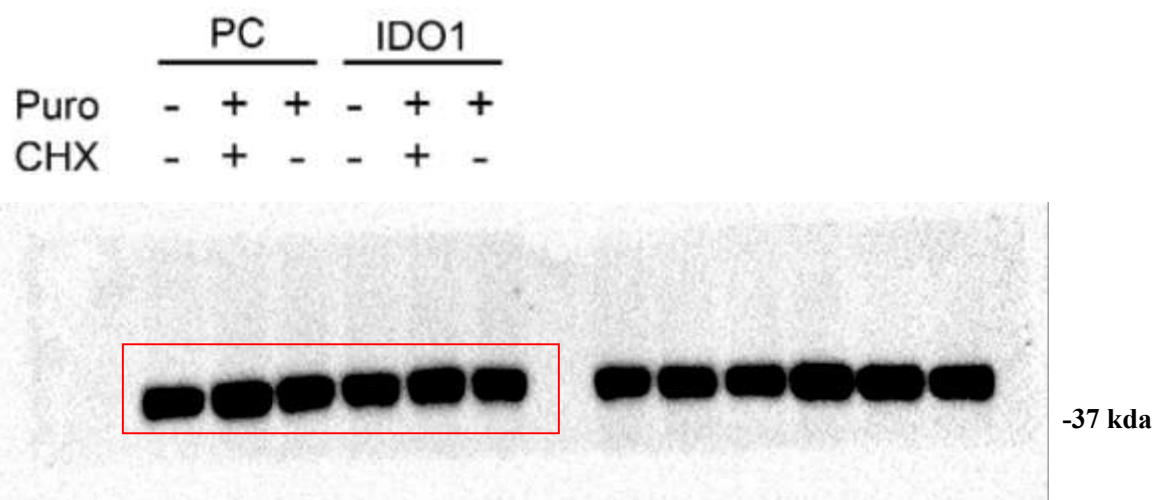


Fig5-F- β -actin

Puro	-	+	+	+	+	+
Kyn	0	0	0	1	0	1
CHX	-	+	-	-	-	-
Rapmycin	0	0	0	0	5	5

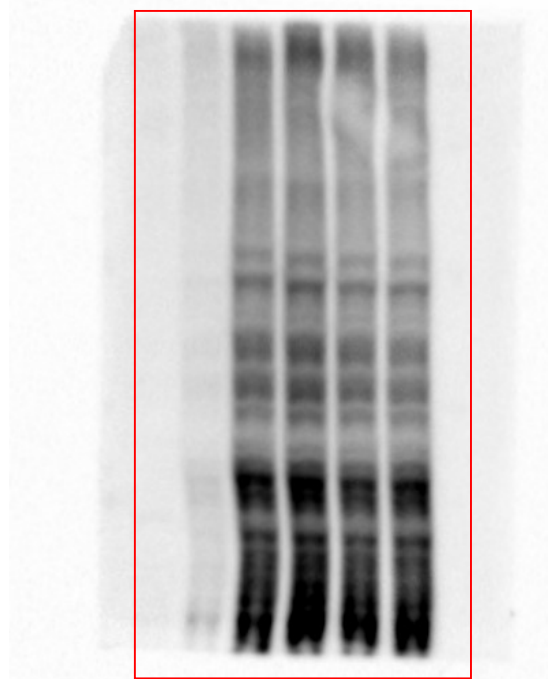


Fig5-G-puromycin

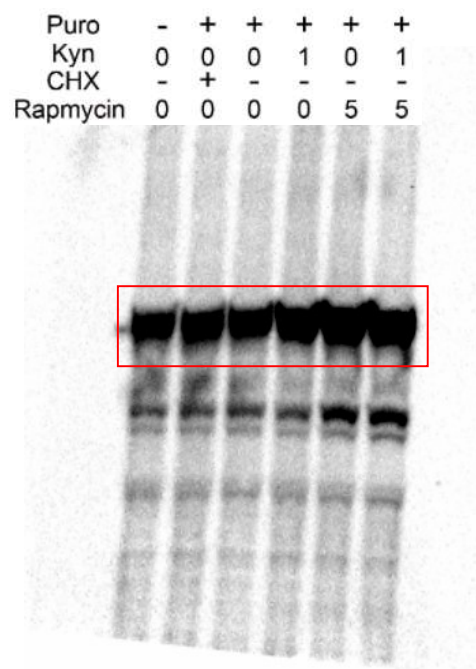


Fig5-G-HSP90

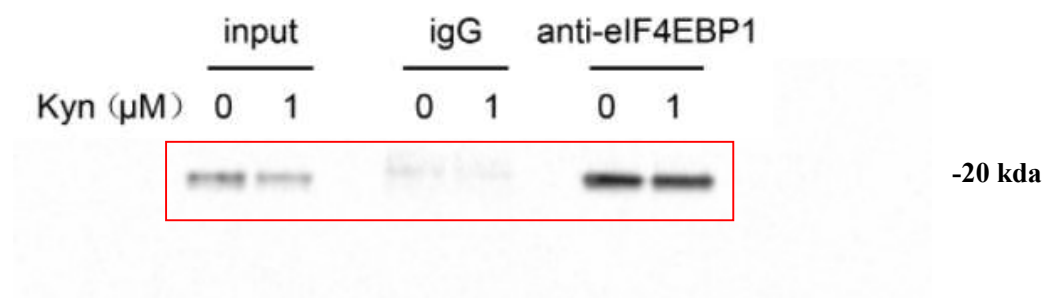


Fig5-I- Eif4E

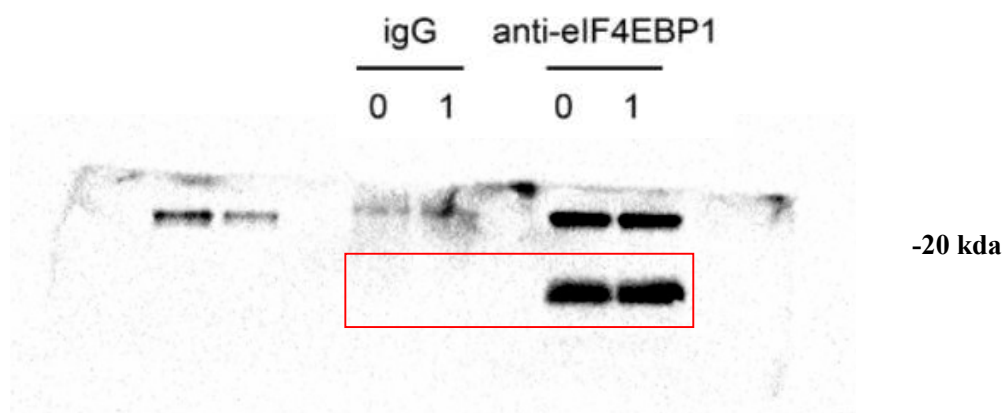


Fig5-i- Eif4EBP1 (ip) -----short exposure

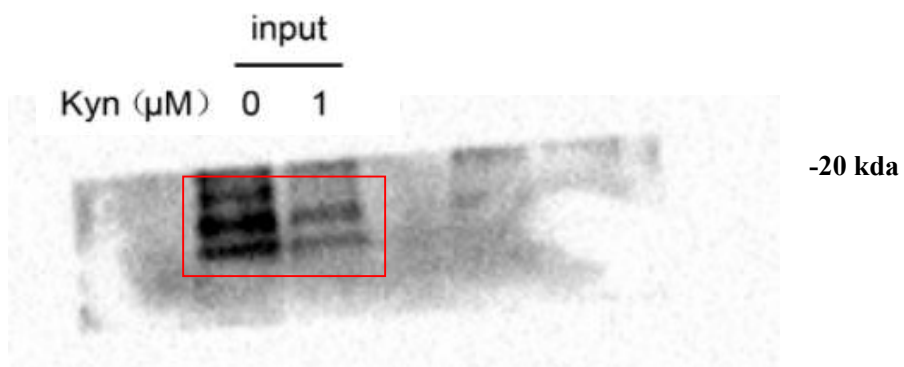


Fig5-i- Eif4EBP1 (input) ----long exposure

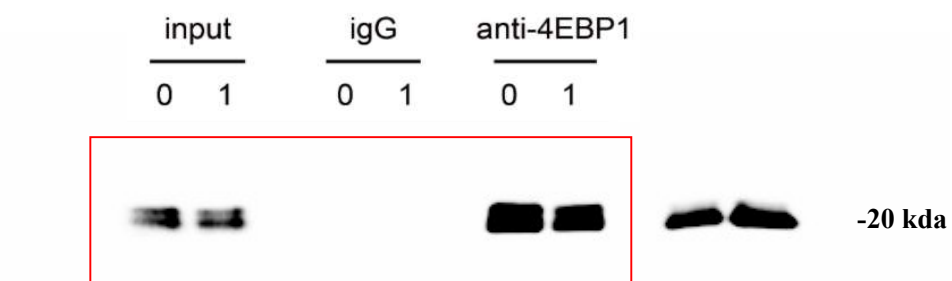


Fig5-J- Eif4EBP1

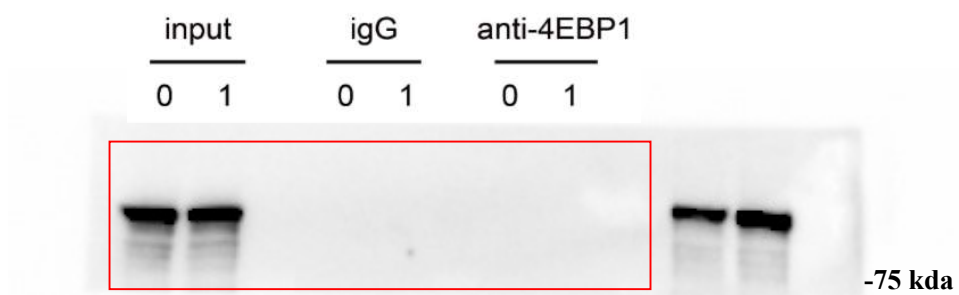


Fig5-J- HSP90

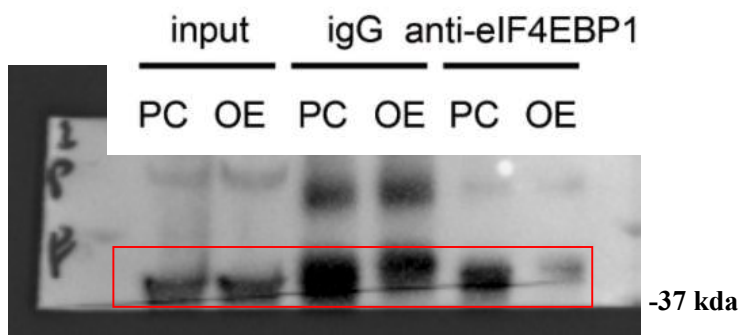


Fig5-K- β -Actin

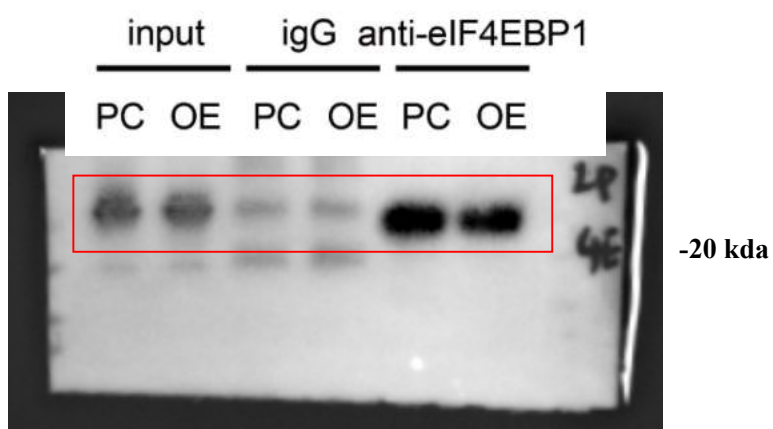


Fig5-K- eIF4E

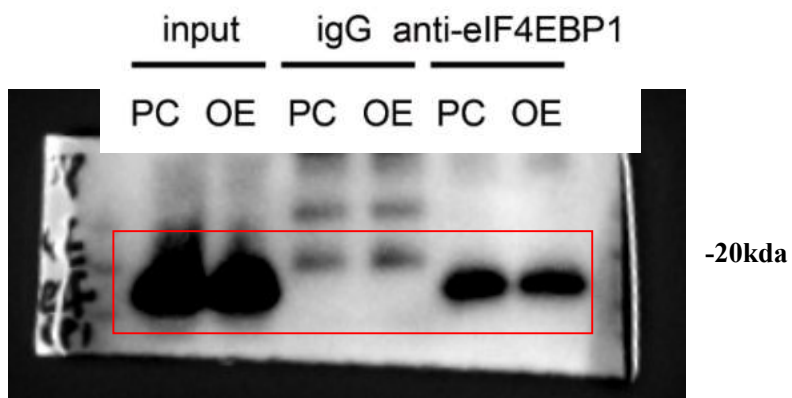


Fig5-K- eIF4EBP1

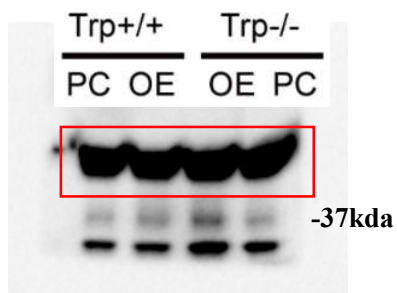


Fig5-M- β -Actin

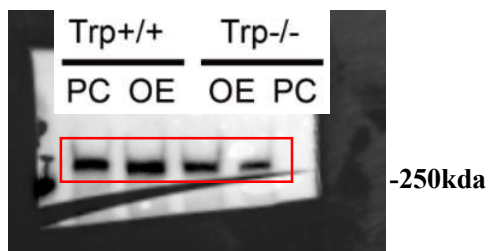


Fig5-M- p-mTOR

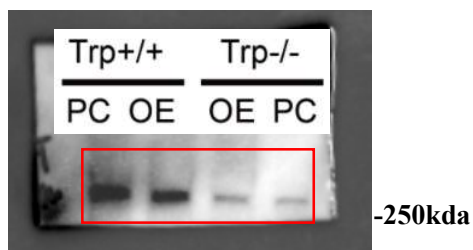


Fig5-M- t-mTOR

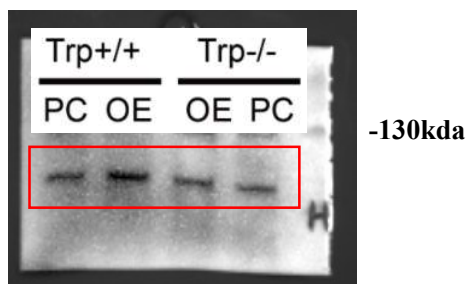


Fig5-M- Hif-1 α

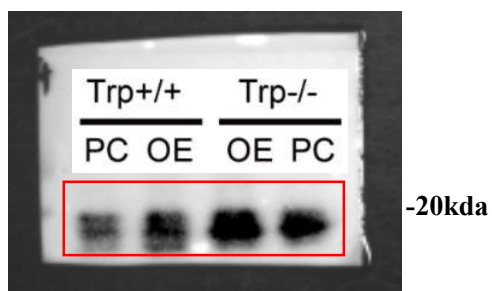


Fig5-M- p-4EBP1

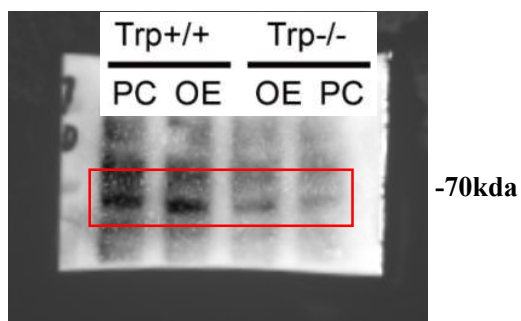


Fig5-M-p-70S6

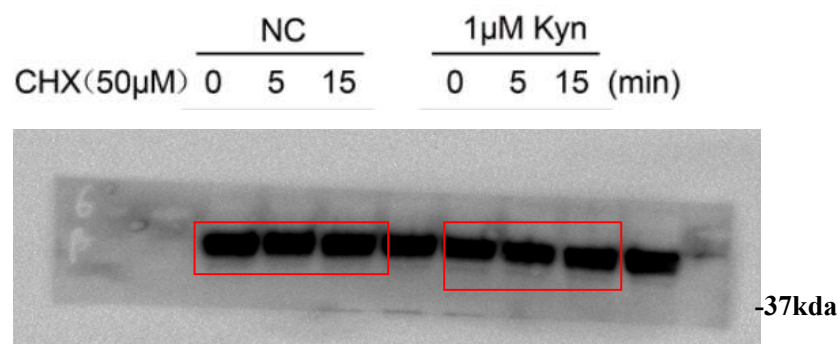


Fig6-A- HIF1α

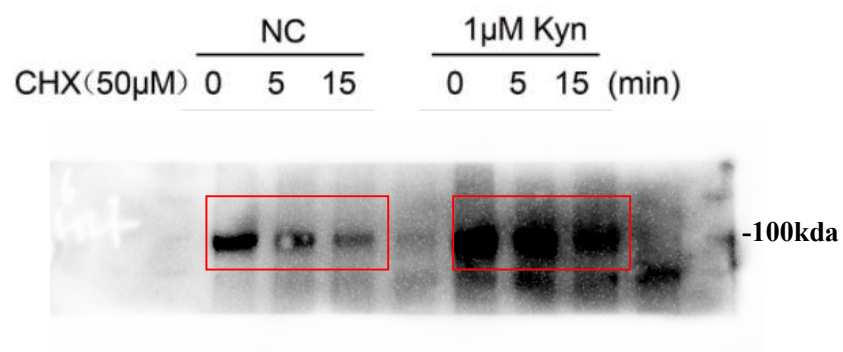


Fig6-A- Actin

	Ub		K48		K33		K63	
Kyn	0	1	0	1	0	1	0	1
HIF-1α Flag	+	+	+	+	+	+	+	+
MG132	+	+	+	+	+	+	+	+

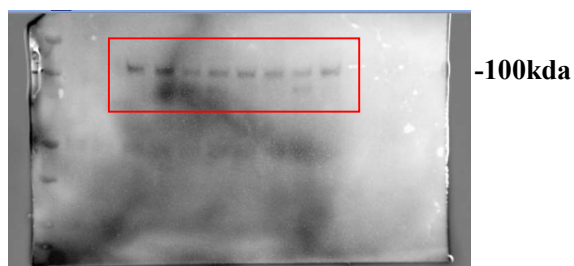


Fig6-B-IP HIF1α

	Ub		K48		K33		K63	
Kyn	0	1	0	1	0	1	0	1
HIF-1α Flag	+	+	+	+	+	+	+	+
MG132	+	+	+	+	+	+	+	+

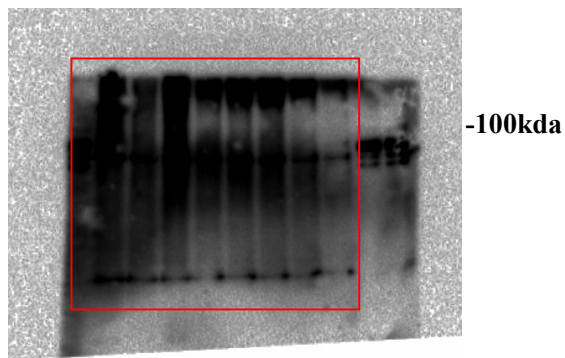


Fig6-B-IP-ub

	Ub		K48		K33		K63	
Kyn	0	1	0	1	0	1	0	1
HIF-1α Flag	+	+	+	+	+	+	+	+
MG132	+	+	+	+	+	+	+	+

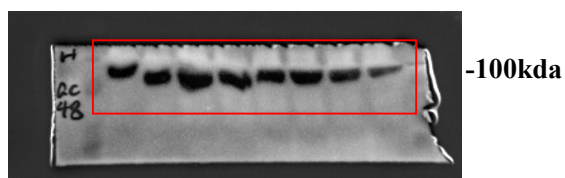


Fig6-B-Input-HIF1α

	Ub		K48		K33		K63	
Kyn	0	1	0	1	0	1	0	1
HIF-1α Flag	+	+	+	+	+	+	+	+
MG132	+	+	+	+	+	+	+	+



Fig6-B-Input-Actin

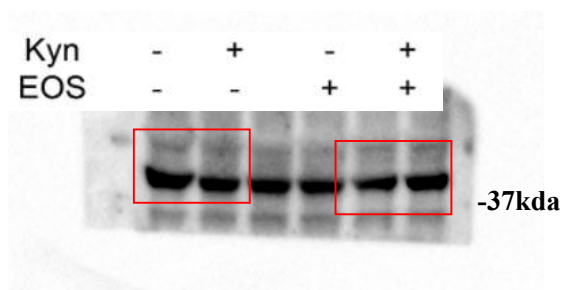


Fig6-C-Actin

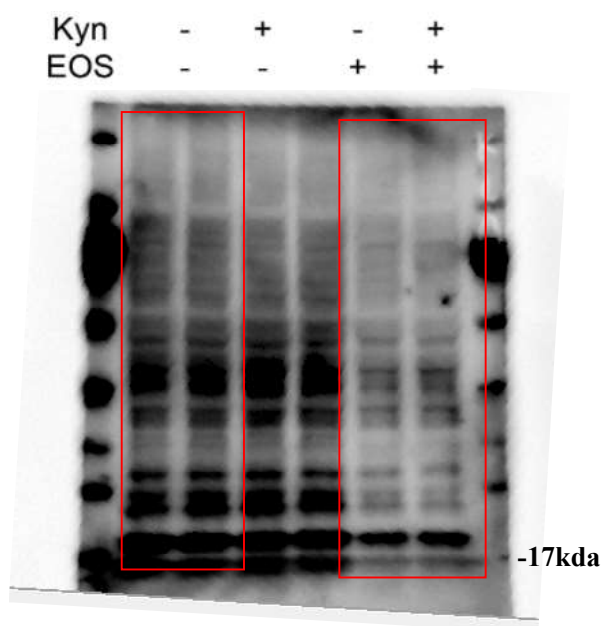


Fig6-C-KLA

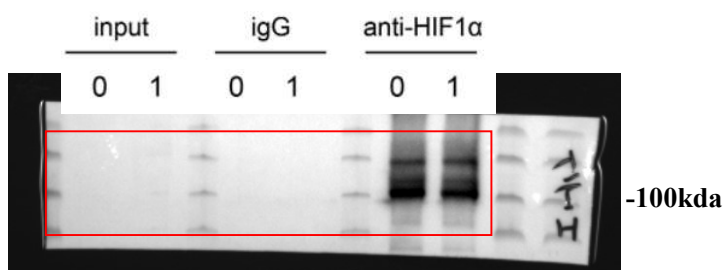


Fig6-D-HIF-1 α

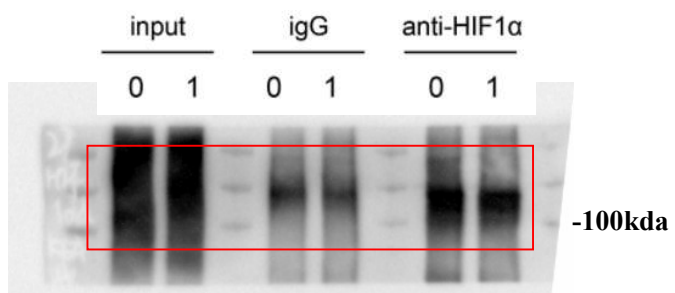


Fig6-D-Ub

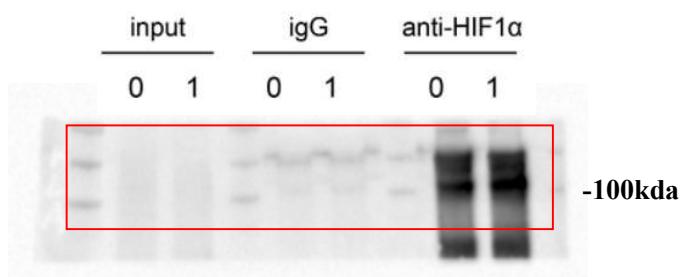


Fig6-D-Kla

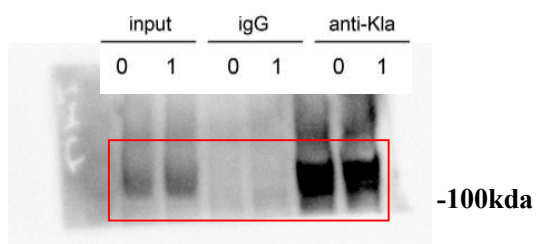


Fig6-E-HIF-1 α

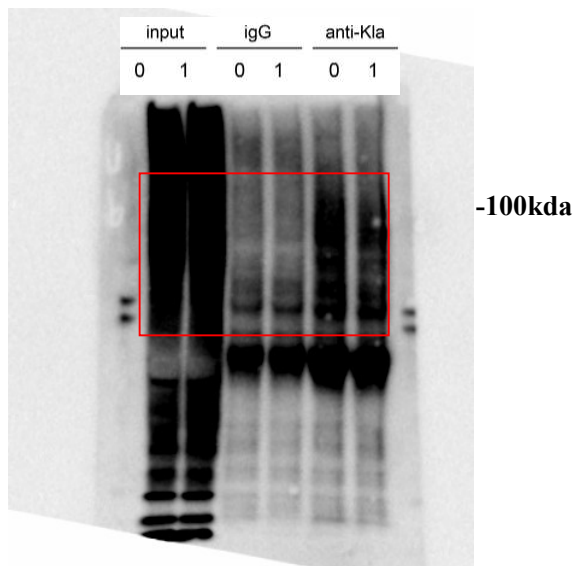


Fig6-E-Ub

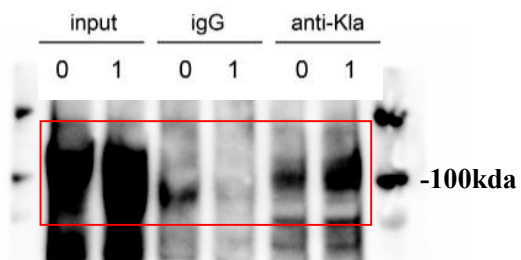


Fig6-E-Kla

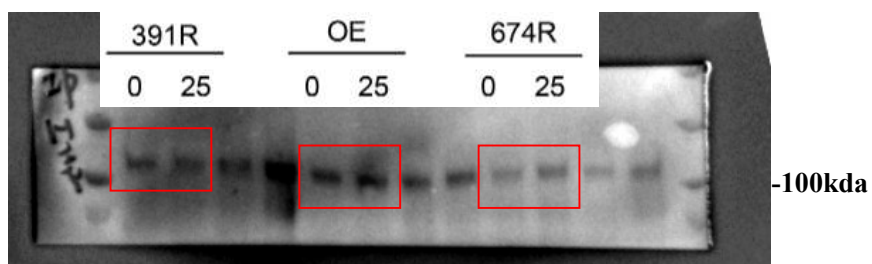


Fig6-F-IP-HIF-1 α

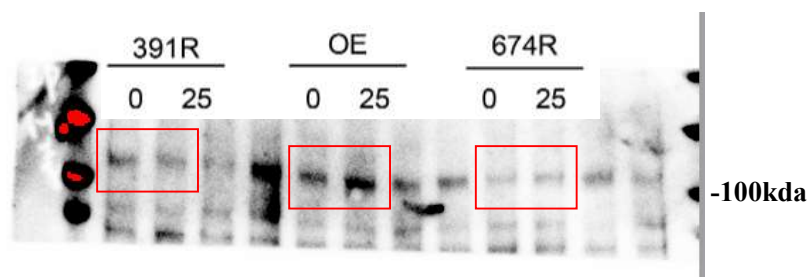


Fig6-F-IP-Kla

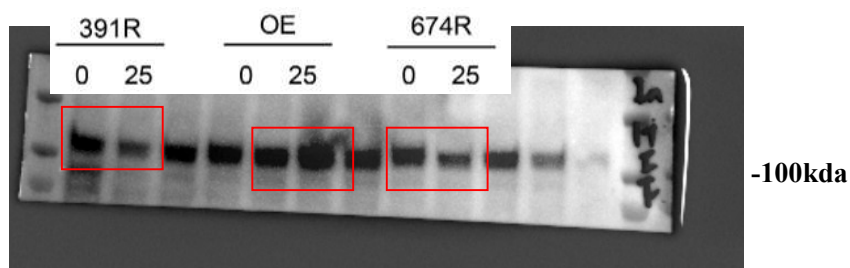


Fig6-F-Input-HIF-1α

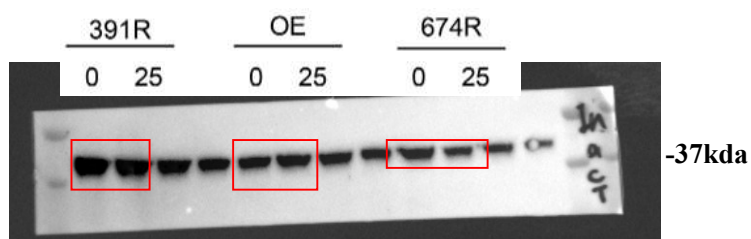


Fig6-F-Input-Actin

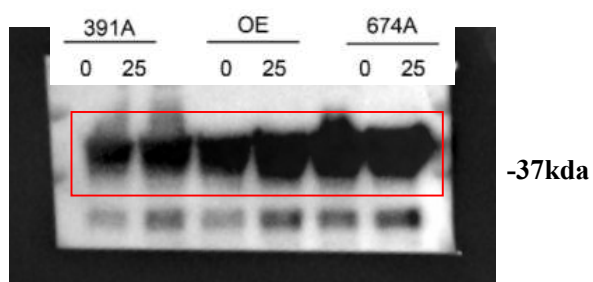


Fig6-G-Input-Actin

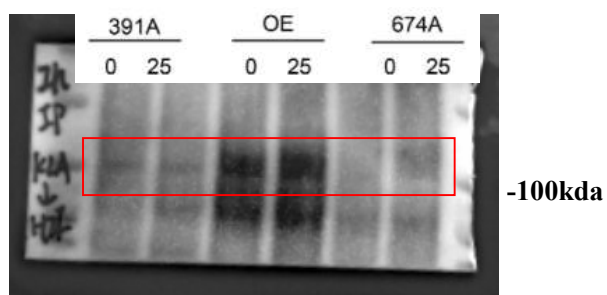


Fig6-G-Input-HIF-1α

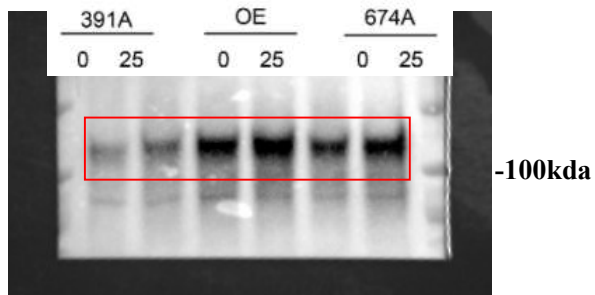


Fig6-G-IP-HIF-1α

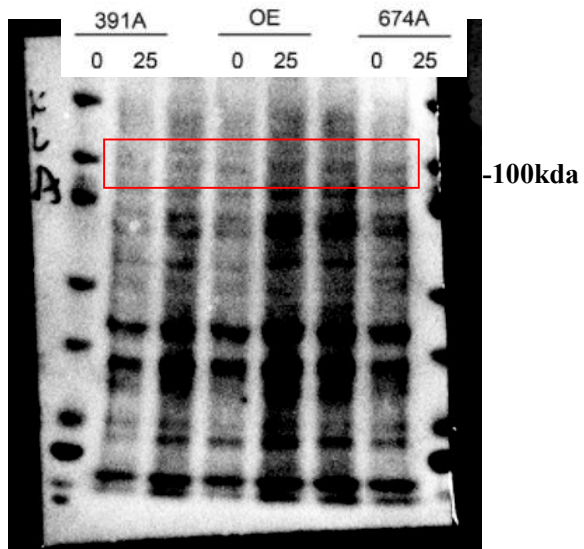
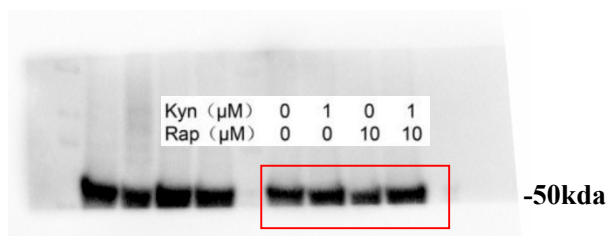
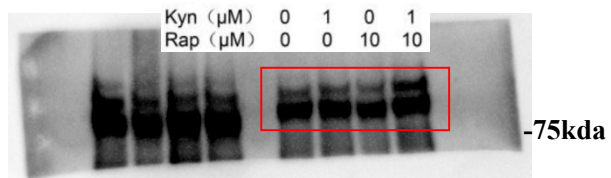


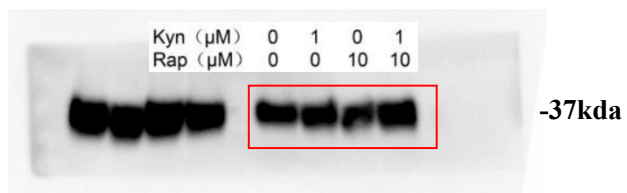
Fig6-G-IP-KLA



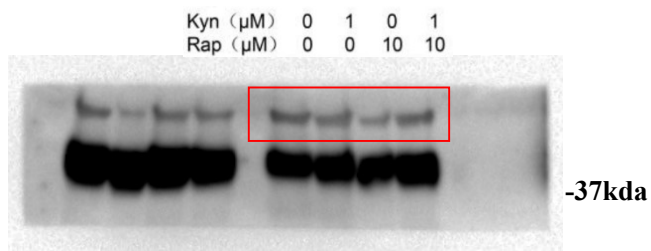
FigS8-G-PKM



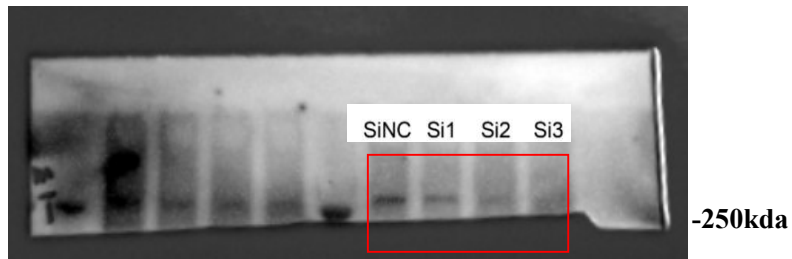
FigS8-G-HK2



FigS8-G-LDHA



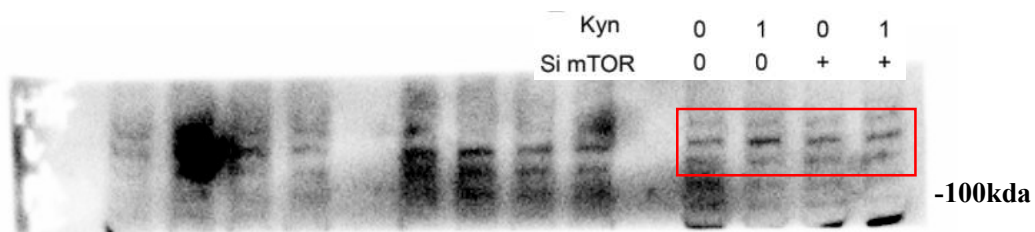
FigS8-G-ACTIN



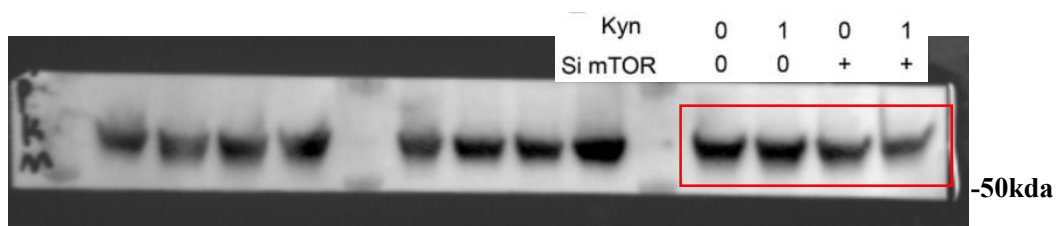
FigS9-A-mTOR



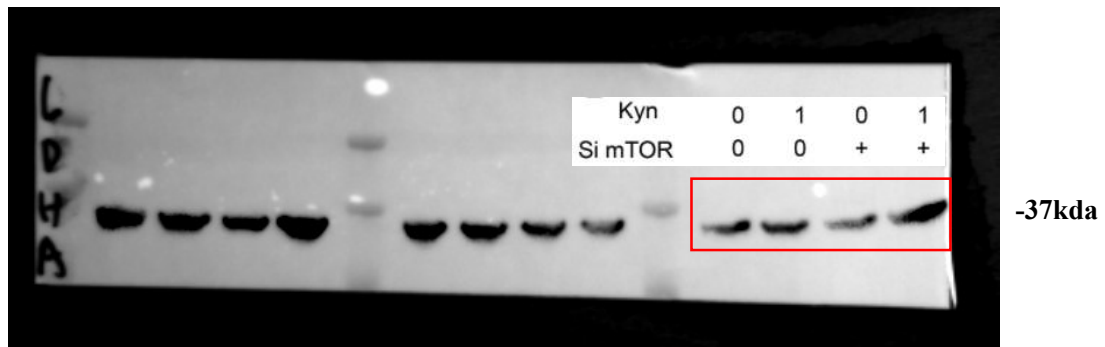
FigS9-A-ACTIN



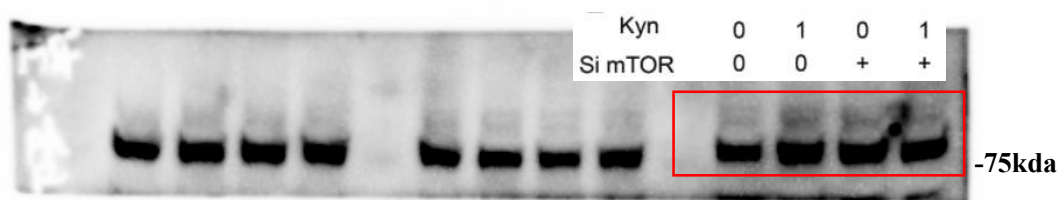
FigS9-B-HIF-1 α



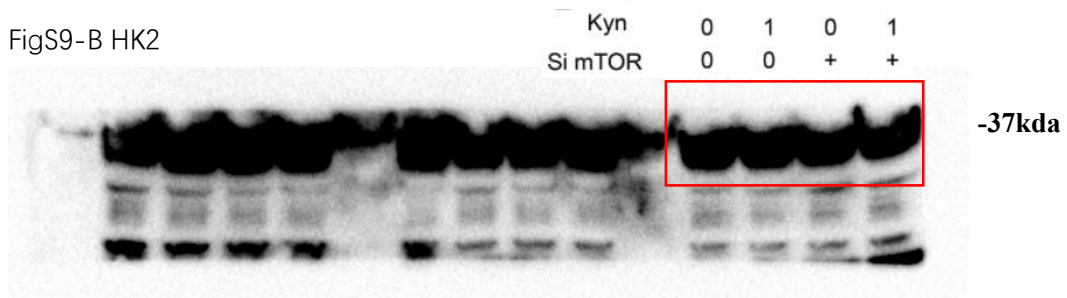
FigS9-B-PKM



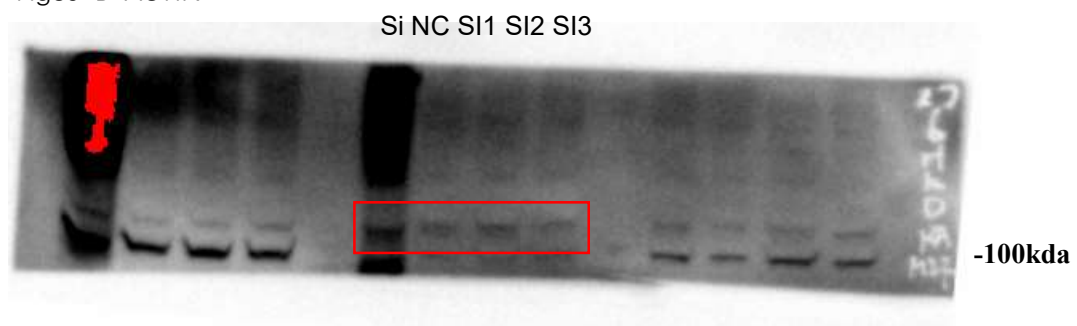
FigS9-B-LDHA



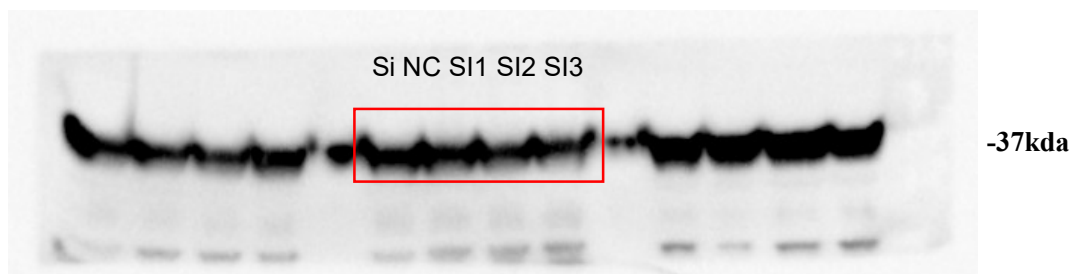
FigS9-B HK2



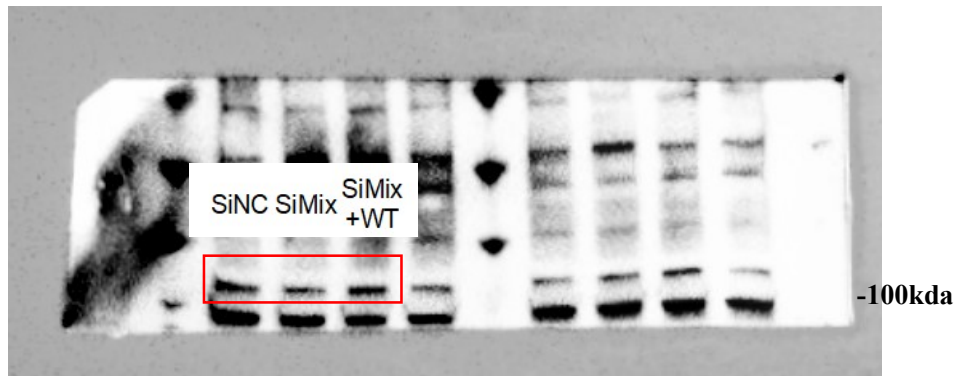
FigS9-B-ACTIN



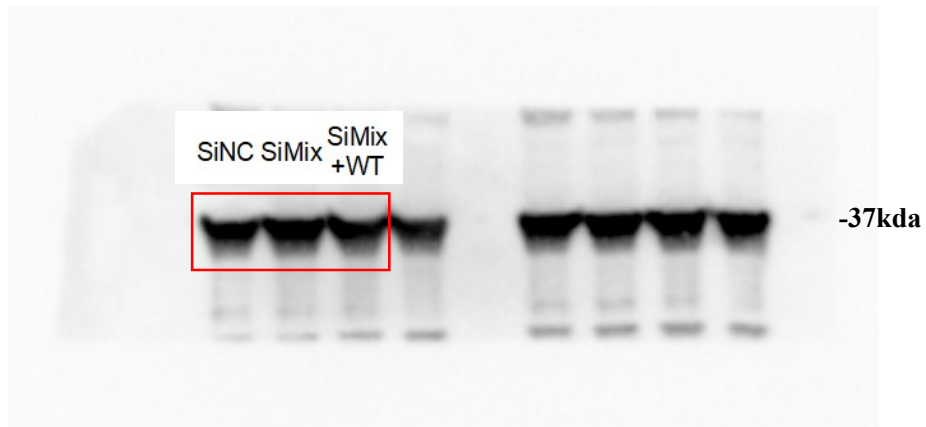
FigS10-A-HIF-1 α



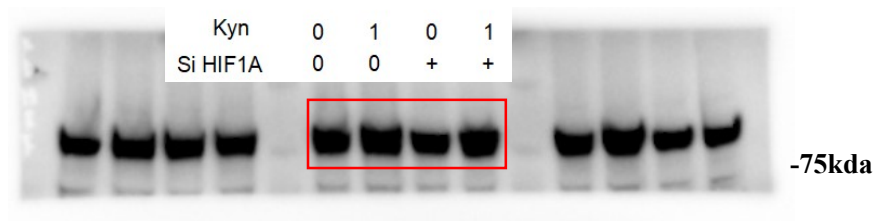
FigS10-A-ACTIN



FigS10-B- HIF-1 α



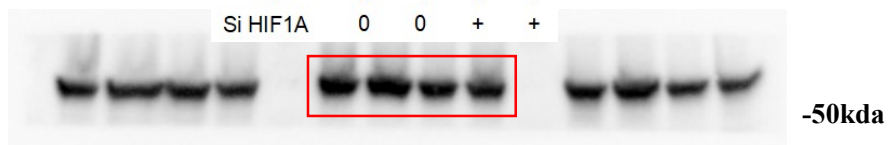
FigS10-B-ACTN



FigS10-E-HK2



FigS10-E-LDHA



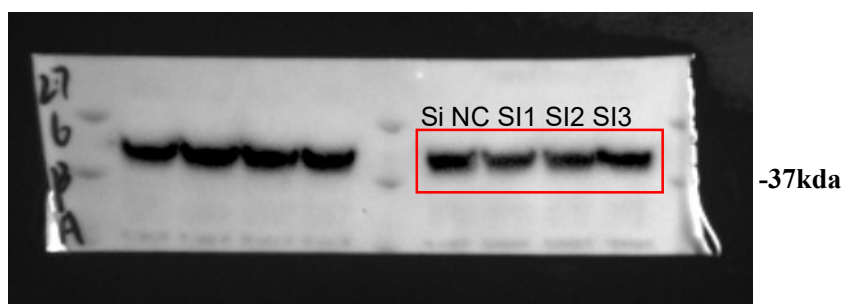
FigS10-E-PKM



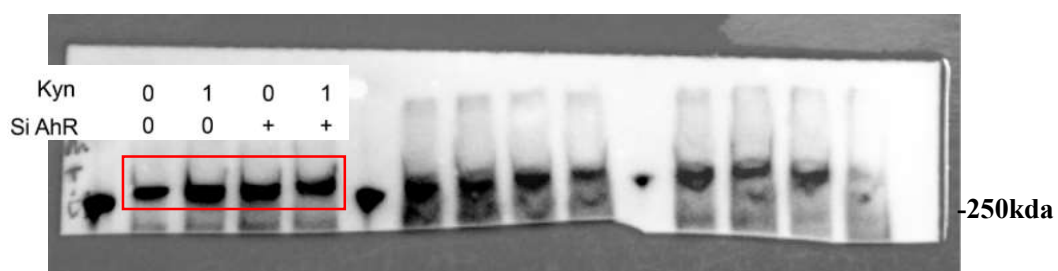
FigS10-E-ACTIN



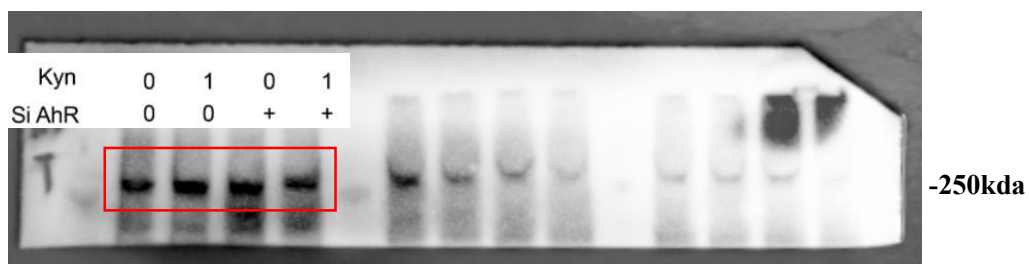
FigS11-A-AhR



FigS11-A-ACTIN



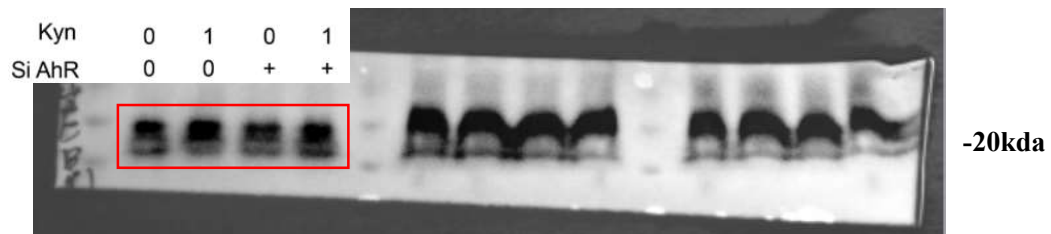
FigS11-B-p-mTOR



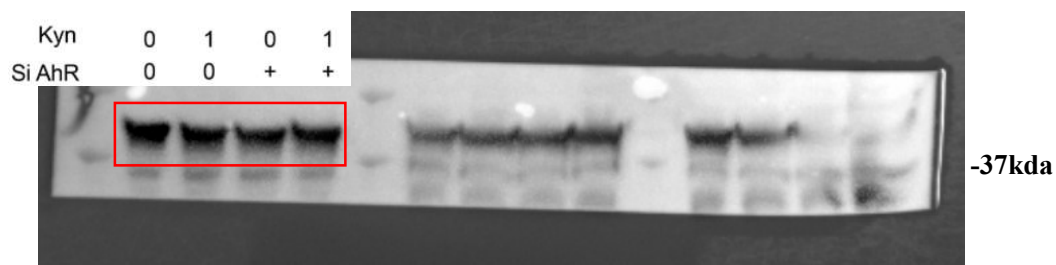
FigS11-B-t-mTOR



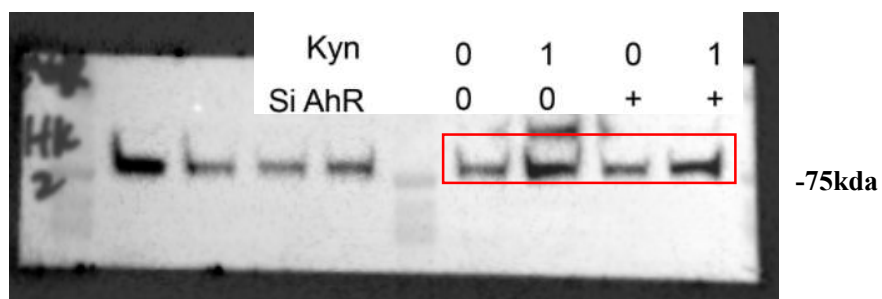
FigS11-B-p-70S6



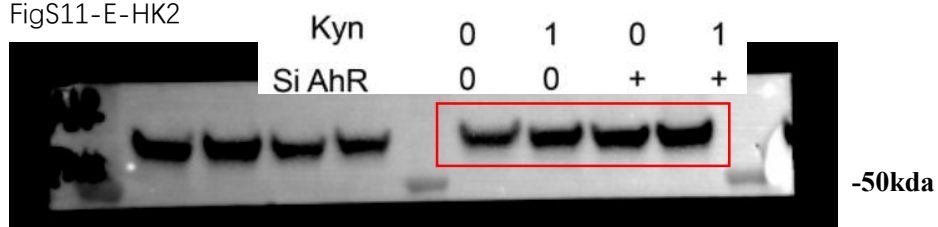
FigS11-B-p-4EBP1



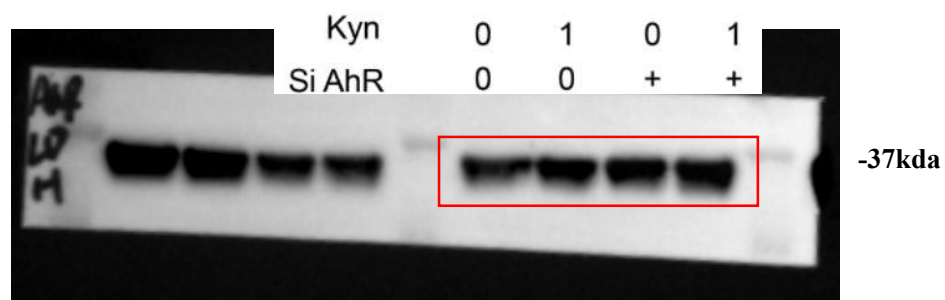
FigS11-B-ACTIN



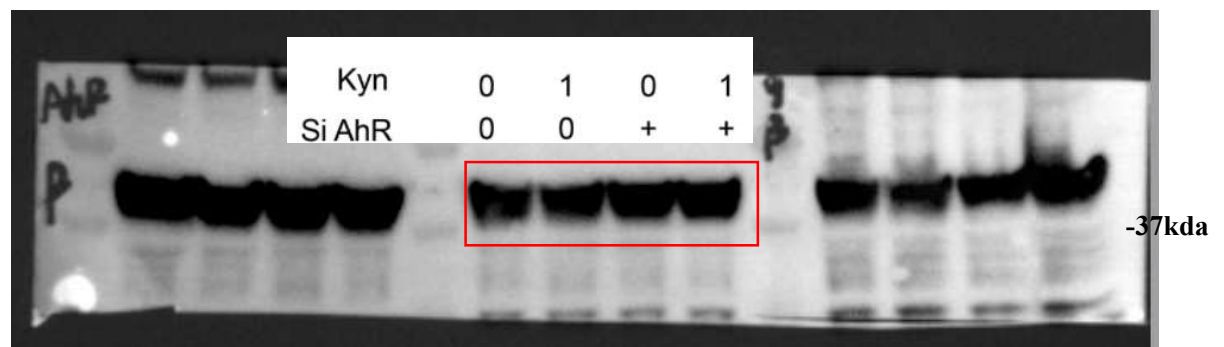
FigS11-E-HK2



FigS11-E-PKM2



FigS11-E-LDHA



FigS11-E-ACTIN